

**Abstract**

A system for selectively generating and feeding forward reticle fabrication data is provided. The system includes components for fabricating a reticle and a control system operatively connected to the fabricating components, where the control system can control the operation of the fabricating components. The control system bases its control of the fabricating components, at least in part, on feed forward control information generated by a processor that analyzes scatterometry based reticle fabrication data gathered from measurement components. The scatterometry data is compared to data stored in a signature data store that facilitates analyzing gathered scatterometry signatures to produce feed forward control information that can be employed to manipulate subsequent reticle fabrication processes and/or apparatus.